

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|---|---|----|---|--------------------------|-----------------|
| Substitute for form 1449A/PTO | | | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | | Application Number | 09/964827 |
| | | | | Filing Date | 9/25/2001 |
| | | | | First Named Inventor | Enrique Musoll |
| | | | | Group Art Unit | 2143 |
| | | | | Examiner Name | Kyung H. Shin |
| Sheet | 1 | of | 1 | Attorney Docket Number | MIPS.0183-00-US |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number Number-Kind Code ^{2(If known)} | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| KS | | 6820087 | 11-16-2004 | Langendorf et al. | |
| KS | | 5951679 | 09-14-1999 | Anderson et al. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|---|--------------------------------|--|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document Country Code ² - Number ³ - Kind Code ^{4(If known)} | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁵ |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | | |
|--------------------|---------------------------|-----------------|--|
| Examiner Signature | /Kyung Shin/ (06/25/2006) | Date Considered | |
|--------------------|---------------------------|-----------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

BEST AVAILABLE COPY

To: Central Number Page 5 of 5

2005-12-12 20:32:53 (GMT)

719 623-0141 From: Jim Huffman

PTO/SS08A (08-33)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|--|---|-----------------|---|--------------------------|--|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | | Complete if Known | |
| Application Number | | 09/884827 | | | |
| Filing Date | | 9/25/2001 | | | |
| First Named Inventor | | Stephen Melvin | | | |
| Group Art Unit | | 2143 | | | |
| Examiner Name | | Kyung H. Shin | | | |
| Attorney Docket Number | | MIPS.0183-00-US | | | |
| Sheet | 1 | of | 1 | | |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| KS | | 09/591510 | 08-12-2000 | Gelinas et al. | |
| ↓ | | 6389488 | 05-14-2002 | Muller et al. | |
| | | 6850840 | 11-18-2003 | Muller et al. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

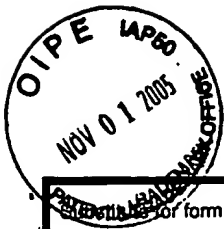
| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|--|--------------------------------|--|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | |
|---|-----------------|
| Examiner Signature /Kyung Shin/ (06/25/2006) | Date Considered |
|---|-----------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 601.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



| | | | | | |
|---|---|----|---|--------------------------|-----------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 09/964827 |
| | | | | Filing Date | 9/25/2001 |
| | | | | First Named Inventor | Stephen Melvin |
| | | | | Group Art Unit | 2143 |
| | | | | Examiner Name | Kyung H. Shin |
| | | | | Attorney Docket Number | MIPS.0183-00-US |
| Sheet | 1 | of | 1 | | |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| KS | | 20040148382 | 07-29-2004 | Narad et al. | |
| | | 20050061401 | 03-24-2005 | Tokoro et al. | |
| | | 20040172471 | 09-02-2004 | Kelvin R. Porter | |
| | | 20020124262 | 09-05-2002 | Basso et al. | |
| | | 6249801 | 06-19-2001 | Zisapel et al. | |
| | | 6219783 | 04-17-2001 | Zahir et al. | |
| | | 6253313 | 06-26-2001 | Morrison et al. | |
| | | 6047122 | 04-04-2000 | Cynthia J. Spiller | |
| | | 5892966 | 04-06-1999 | Petrick et al. | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

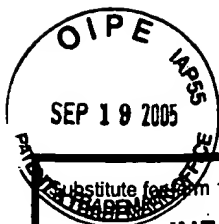
| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|--|--------------------------------|--|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | | |
|--------------------|---------------------------|-----------------|--|
| Examiner Signature | /Kyung Shin/ (06/25/2006) | Date Considered | |
|--------------------|---------------------------|-----------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



| | | | | | |
|---|---|----|---|--------------------------|-----------------|
| Substitute for Form 1449A/PTO | | | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | | Application Number | 09/964827 |
| | | | | Filing Date | 9/25/2001 |
| | | | | First Named Inventor | STEPHEN MELVIN |
| | | | | Group Art Unit | 2143 |
| | | | | Examiner Name | KYUNG H. SHIN |
| Sheet | 1 | of | 1 | Attorney Docket Number | MIPS.0183-00-US |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
| KS | | 6131163 | 10-10-2000 | Scott L. Wiegel | |
| ↓ | | 6016308 | 1-18-2000 | Crayford et al. | |
| | | 6502213 | 12-31-2002 | Michel K. Bowman-Amuah | |
| | | 5408464 | 04-18-1995 | Mark Jurkevich | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|--------------------------|---|--------------------------------|--|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ - Number ⁴ - Kind Code ⁵ (if known) | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | | |
|-----------------------|---------------------------|--------------------|--|
| Examiner Signature | /Kyung Shin/ (06/25/2006) | Date Considered | |
|-----------------------|---------------------------|--------------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Please type a plus sign (+) inside this box

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
No collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|---|--|--|--|--------------------------|----------------|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | Application Number | NA |
| | | | | Filing Date | 09/25/2001 |
| | | | | First Named Inventor | Enrique Musoll |
| | | | | Group Art Unit | NA |
| | | | | Examiner Name | NA |
| | | | | Attorney Docket Number | P3842 |

[illegible][illegible]

| | | | |
|-----------------------|---------------------------|--------------------|--|
| Examiner Signature | /Kyung Shin/ (06/25/2006) | Date Considered | |
|-----------------------|---------------------------|--------------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

Please type a plus sign (+) inside this box →



PTO/SB/088 (08-00)

Approved for use through 10/31/2002. OMB 0851-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|---|---|----|--------------------------|------------------------|-------|
| Substitute for form 1449B/PTO | | | Complete if Known | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | | Application Number | NA | |
| | | | Filing Date | 09/25/2001 | |
| | | | First Named Inventor | Enrique Musoll | |
| | | | Group Art Unit | NA | |
| | | | Examiner Name | NA | |
| Sheet | 2 | of | 2 | Attorney Docket Number | P3842 |



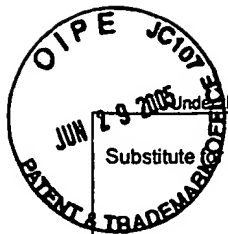
| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| KS | | ENRIQUE MUSOLL ET AL. Mechanism to Overflow Packets to a Software Controlled Memory When They Do Not Fit into a Hardware Controlled Memory, July 3, 2001, Disclosure Document #496391, USPTO | |
| KS | | ENRIQUE MUSOLL ET AL. Hardware Algorithm for Allocating and De-allocating Consecutive Blocks of Memory April 3, 2001, Disclosure Document #491557, USPTO | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | | |
|--------------------|---------------------------|-----------------|--|
| Examiner Signature | /Kyung Shin/ (06/25/2006) | Date Considered | |
|--------------------|---------------------------|-----------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449-PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

| | |
|------------------------|-----------------|
| Application Number | 09/964827 |
| Filing Date | 09/25/01 |
| First Named Inventor | Stephen Melvin |
| Art Unit | 2143 |
| Examiner Name | Kyung H. Shin |
| Attorney Docket Number | MIPS.0183-00-US |

| | | | |
|-------|---|----|---|
| Sheet | 1 | of | 1 |
|-------|---|----|---|

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|--|
| | | Number-Kind Code ² (if known) | | | |
| KS | | 4200927 | 04-29-1980 | Huges et al. | |
| | | 6151644 | 11-21-2000 | Chun-Chu Archie Wu | |
| | | 6453360 | 09-17-2002 | Muller et al. | |
| | | 20010052053 | 12-13-2001 | Nemirovsky et al. | |
| | | 20010043610 | 11-22-2001 | Nemirovsky et al. | |
| | | 20020016883 | 02-07-2002 | Musoll et al. | |
| | | 20020054603 | 05-09-2002 | Musoll et al. | |
| | | 20040213251 | 10-28-2004 | Tran et al. | |
| | | 20040172504 | 09-02-2004 | Balazich et al. | |
| | | 20040015598 | 01-22-2004 | Jin-Fun, Lin | |
| | | 09/602,279 | NA | Nemirovsky et al. | |
| | | 5559970 | 09-24-1996 | Vinod Sharma | |
| | | 6614796 | 09-02-2003 | Black et al. | |

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|-----------------------|---|----------------|
| KS | AA | MUSOLL ET AL. Mechanism to Prevent the Download of a Packet with Pending Writes Affecting Its Data. April 11, 2001. Disclosure Document #492430, USPTO | |
| KS | AB | UNGERER ET AL. A Survey of Processors with Explicit Multithreading. ACM Computing Surveys, Vol., 35, No. 1. March 2003. Pages 29-63. | |

| | | | |
|--------------------|---------------------------|-----------------|--|
| Examiner Signature | /Kyung Shin/ (06/25/2006) | Date Considered | |
|--------------------|---------------------------|-----------------|--|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 27 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (08-03)

Approved for use through 07/31/2008. OMB 0851-0001

U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449-PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

| | |
|------------------------|-----------------|
| Application Number | 09/864,827 |
| Filing Date | 09/25/2001 |
| First Named Inventor | Enrique Muscoli |
| Art Unit | 2153 |
| Examiner Name | Glenon Burgess |
| Attorney Docket Number | P3842 |

Sheet 1 of 3

| U. S. PATENT DOCUMENTS | | | | | |
|------------------------|----------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. | Document Number Number-Kind Code ² Name | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| KHS | | US-6088745 A * | 07-11-2000 | Bertagna et al. | |
| | | US-6167955 A * | 12-05-2000 | Narad et al. | |
| | | US-6189745 B1 * | 01-02-2001 | Liu et al. | |
| | | US-6228880 B1 * | 05-01-2001 | Boucher et al. | |
| | | US-5918050 A * | 06-28-1999 | Rosenthal et al. | |
| | | US-6223274 B1 * | 04-24-2001 | Cethoor et al. | |
| | | US-6023738 A * | 02-08-2000 | Priem et al. | |
| | | US-5859797 A * | 08-18-1997 | Zandveld et al. | |
| | | US-6070202 A * | 05-30-2000 | Minkoff et al. | |
| | | US-6247105 B1 * | 08-12-2001 | Goldstein et al. | |
| | | US-5978893 A * | 11-02-1999 | Bekshi et al. | |
| | | US-5784699 A * | 07-21-1998 | McMahon et al. | |
| | | US-5834016 A * | 06-27-1997 | Chang et al. | |
| | | US-6023778 A * | 06-11-1998 | Gregor, Steven | |
| | | US-4942518 A * | 07-17-1990 | Weatherford et al. | |
| | | US-4707784 A * | 11-17-1987 | Ryan et al. | |
| | | US-6009518 A * | 12-28-1999 | Stelss et al. | |
| | | US-5812810 A * | 09-22-1998 | Sager, David | |
| | | US-5887578 A * | 11-18-1999 | Butcher, Lawrence | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|----------|---|--------------------------------|--|---|----------------|
| Examiner Initials* | Cite No. | Foreign Patent Document Country Code ² Number ² Name ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ³ |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | | |
|--------------------|----------------------|-----------------|----------|
| Examiner Signature | <i>Kyung H. Shin</i> | Date Considered | 12-26-04 |
|--------------------|----------------------|-----------------|----------|

*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 908. Enter line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * Applicant's unique citation designation number (optional). * See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. * Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). * For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. * Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. * Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

* References not provided under § 1.98

PTO/CS/08A (08-03)

Approved for use through 07/31/2004. OMB 0551-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Supplement to form 1449PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

| | |
|------------------------|------------------|
| Application Number | 09/984,827 |
| Filing Date | 09/25/2001 |
| First Named Inventor | Enrique Musoli |
| Art Unit | 2163 |
| Examiner Name | Gilanton Burgess |
| Attorney Docket Number | P3842 |

Sheet 2 of 3

| Examiner Initials* | Cite No. | U. S. PATENT DOCUMENTS | | | |
|--------------------|----------|--|--------------------------------|--|---|
| | | Document Number Number-Kind Code* Class | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| KHS | | US- 5471598 A * | 11-28-1995 | Quattromani et al. | |
| | | US- 6263452 B1 * | 07-17-2001 | Jewett et al. | |
| | | US- 5878570 A * | 11-02-1999 | Hillis, W. Daniel | |
| | | US- 6073251 A * | 06-08-2000 | Jewett et al. | |
| | | US- 6381242 B1 * | 04-30-2002 | Maher, III et al. | |
| | | US- 5796966 A * | 08-18-1998 | Simcoe et al. | |
| | | US- 5291481 A * | 03-01-1994 | Doshi et al. | |
| | | US- 6121383 A * | 06-09-1992 | Golestani, S. Jamaloddin | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |

| Examiner Initials* | Cite No. | FOREIGN PATENT DOCUMENTS | | | |
|--------------------|----------|--|--------------------------------|--|---|
| | | Foreign Patent Document Country Code* Number* Year Code* (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | | |
|--------------------|--------------|-----------------|----------|
| Examiner Signature | Kyung H. Shi | Date Considered | 12-26-04 |
|--------------------|--------------|-----------------|----------|

*EXAMINER: Initials of referenced document, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 601.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.2). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Name of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.57 and 1.88. The information is required to obtain or retain a benefit by the priority which is to the (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEE OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-0199 (1-800-768-9199) and select option 2.

* References not provided under §1.98

PTO/SB/028 (03-03)

Approved for use through 07/31/2008, OMB 0591-0001
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it carries a valid OMB control number.

| | | | |
|---|---|------------------------|-----------------|
| Substitute for form 1442/PTO | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | Application Number | 09/984,827 |
| | | Filing Date | 08/25/2001 |
| | | First Named Inventor | Enrique Musoli |
| | | Art Unit | 2153 |
| | | Examiner Name | Glenton Burgess |
| Sheet | 3 | of | 3 |
| | | Attorney Docket Number | P3842 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------|---|----|
| Examiner Initials* | Cite No.† | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T‡ |
| KHS | | * KNUTH, DONALD E., "The Art of Computer Programming, Third Edition, Volume 1, Fundamental Algorithms", "Sec. 2.6 Dynamic Storage Allocation", 1997, pp 435-458, Addison-Wesley, US | |
| ↓ | | * DIEFENDORFF, Keith, K7 Challenges Intel, Microprocessor Report, October 28, 1998, Vol. 12, No. 14, US | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | | |
|--------------------|----------------------|-----------------|----------|
| Examiner Signature | <i>Kyung H. Shin</i> | Date Considered | 12/26/04 |
|--------------------|----------------------|-----------------|----------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

† Applicant's unique citation designation number (optional). ‡ Applicant is to place a check mark here if English language translation is attached. This collection of information is required by 37 CFR 1.83. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including searching, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

* References not provided under §1.98